

I claim:

1 1. A method for transforming a logical hierarchy associated with a model of
2 an electronic design into a physical hierarchy optimized for chip-level implementation of
3 that electronic design, the method comprising:
4 partitioning the model into a number of data-flow-logic partitions and control
5 logic partitions, each partition having a boundary; and
6 selectively readjusting partition boundaries in response to placement based
7 information thereby forming a physical hierarchy based on
8 connectivity between partitions.

1 2. A method for partitioning an electronic design into a number of data-flow-
2 logic partitions, the method comprising:
3 traversing the electronic design to group data operators inter-connected by
4 buses into data-flow-logic partitions, wherein data operators inter-
5 connected by an independent bus system form an independent data-
6 flow partition; and
7 selectively breaking or merging each of the data-flow-logic partitions based on
8 placement-based information.

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